

Internation plication No.

PCT/US03/10447 CLASSIFICATION OF SUBJECT MATTER : A61K 31/498; C07D 487/04. IPC(7) 514/250; 544/344, 345. US CL According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 514/250; 544/345, 344. Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CAS ONLINE STRUCTURE SEARCH DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category \* US 6,329,375 B1 (TANG et al.) 11 December 2001 (11.12.2001), entire document. 1-22 Further documents are listed in the continuation of Box C. See patent family annex. later document published after the international filing date or priority date and not in conflict with the application but cited to understand the Special categories of cited documents: principle or theory underlying the invention document defining the general state of the art which is not considered to be of particular relevance document of particular relevance; the claimed invention cannot be "X" earlier application or patent published on or after the international filing date considered novel or cannot be considered to involve an inventive step "E" when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination specified) being obvious to a person skilled in the art document referring to an oral disclosure, use, exhibition or other means ≈ Re\*\* document member of the same patent family document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 25 July 2003 (25.07.2003) Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents

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| Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)  |
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| This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:  |
| 1. Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  |
| 2. Claim Nos.: 1-5, 8, 12, 14-22 (all in part) because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: Please See Continuation Sheet |
| 3. Claim Nos.:  because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).  |
| Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)  |
| This International Searching Authority found multiple inventions in this international application, as follows:  |
|  |
| As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.   |
| 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  |
| 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:  |
|  |
| 4. No required additional search fees were timely paid by the applicant. Consequently, this international search repor is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:   |
| Remark on Protest The additional search fees were accompanied by the applicant's protest.  |
| No protest accompanied the payment of additional search fees.  |

Form PCT/ISA/210 (continuation of first sheet(1)) (July 1998)



## Continuation of Item 4 of the first sheet: The title does not convey structural makeup of claimed invention. The following is suggested: "FUSED QUINOXALINE DERIVATIVES AS INHIBITORS OF AKT ACTIVITY".

## Continuation of Box I Reason 2: The claims relate to an extremely large number of permutations based on the scope of variables as generically set forth in the claims which are not all adequately supported in the description within the meaning of PCT Article 6. The claims have been searched based on the U.S. classification of the working examples in the description and particularly claimed in claims 6,7,9,11 and 13.